

# Industrial Media Filters

FRP Tanks: 21" to 63" Diameter

**MF-600  
SERIES**

Pure Aqua's media filters clarify water by removing sediment, turbidity, iron, unpleasant tastes, odors, suspended particles, and unwanted color; all of which are commonly found in surface water. They can be used in a variety of services including industrial, municipal, and institutional applications.

The Pure Aqua MF-600 Series automatic backwashing media filter system is designed to provide the highest quality in water filtration equipment while covering a wide variety of commercial and industrial applications including turbidity reduction, iron & manganese removal, and chlorine removal. A broad range of filter media and component options are offered to fit your exact specifications.



Automatic MLF48-A-F with  
Butterfly Valves and PLC



Automatic MLF48-A-F with  
Diaphragm Valves and Stager



Manual MLF48-M-F with  
Manual Butterfly Valves

## Standard Features

- 1.5"-2" Noryl diaphragm valves or butterfly valves for 3" or larger
- Digital stager for filters using diaphragm valves or PLC for butterfly valves
- 1/4" tubing between stager and valves
- FRP tank with 150 psi
- Top loading port
- Schedule 80 PVC face piping
- PP/PVC sch 80 internal piping and distributor
- Vent and drain ports
- High quality media

## Available Options

- Duplex systems
- Tanks according to ASME code
- Stainless steel tanks
- Epoxy coated steel tanks
- 240V/1ph/50Hz power supply
- Vacuum breaker
- Pressure relief valve
- Inlet/outlet sample valves
- Inlet/outlet pressure gauges
- Differential pressure switch and gauge
- Filters using diaphragm valves
- CPVC exterior piping
- Separate source backwash water supply
- Auxiliary switch for backwash pump start

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### Digital Stager

The digital stager can use air or water to actuate the control valves. PLC control is optional.



### Vacuum Breaker

The vacuum breakers protect the tank and face piping during operation by preventing negative pressure in the tank.



### DP Switch

The differential pressure gauge and switch are used to automatically initiate backwash.

## Filter Media Types

Pure Aqua supplies a wide range of quality filter media that meet industry standards for efficient and effective filtration.



Gravel

Anthracite

Sand

Calcite

Coconut Carbon

Turbidex

Greensand Plus

### Sand

Graded in various ranges, Pure Aqua's sand can be used as filtration media or underbedding depending on particle size and application.

### Calcite

Calcite media is specially graded calcium carbonate compound for neutralizing acid with consistent dissolving rates for water treatment.

### Greensand Plus

GreensandPlus™ is a black filter media used to remove soluble iron, manganese, hydrogen sulfide, arsenic, and radium from groundwater supplies.

### Anthracite

Anthracite is recommended as a filter media where additional silica in the water is not desirable and removes lighter weight turbidity.

### Activated Carbon

Activated carbon media is used to remove taste, odor, chlorine and organic contaminants and is used in many drinking water applications.

### Turbidex



Turbidex is based on a rare natural mineral. Its unique properties radically improve the performance and cost of media filtration.



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### Operation Specifications

 Operating pressure: 2-6.8 bar (30-100 psi)  
 Electrical: 120VAC, 1-Phase, 60Hz, 5 Amp

 Operating temperature: 2-38°C (35-100°F)  
 Filters can be supplied in 240V/1ph/50Hz

Model #		Flow Rate						Tank Size D"xH"	Media Qty (ft <sup>3</sup> )	Pipe Size		Approx. Weight (lbs)
		Average		Peak		Backwash				Serv.	Drain	
		GPM	M <sup>3</sup> /H	GPM	M <sup>3</sup> /H	GPM	M <sup>3</sup> /H					
<b>Multi Layers Filters: Anthracite, Sand and Gravel (Turbidity Removal)</b>												
MLF21-A-F	MLF21-M-F	24	5.5	48	11.0	36	8.2	21x65	6.5	1-1/2"	1-1/2"	865
MLF24-A-F	MLF24-M-F	31	7.1	63	14.3	47	10.7	24x72	8.5	1-1/2"	1-1/2"	1,163
MLF30-A-F	MLF30-M-F	49	11.2	98	22.3	74	16.7	30x72	13	2"	2"	1,875
MLF36-A-F	MLF36-M-F	71	16.1	141	32.1	106	24.1	36x72	19	3"	3"	2,668
MLF42-A-F	MLF42-M-F	96	21.9	192	43.7	144	32.8	42x72	26	3"	3"	4,160
MLF48-A-F	MLF48-M-F	126	28.6	251	57.1	189	42.9	48x72	34	3"	3"	5,363
MLF63-A-F	MLF63-M-F	217	49.2	433	98.4	325	73.8	63x86	58	4"	4"	9,769
<b>Turbidex Filters: (Turbidity Removal)</b>												
TXF21-A-F	TXF21-M-F	24	5.5	48	11.0	36	8.2	21x65	6.5	1-1/2"	1-1/2"	669
TXF24-A-F	TXF24-M-F	31	7.1	63	14.3	47	10.7	24x72	8.5	1-1/2"	1-1/2"	931
TXF30-A-F	TXF30-M-F	49	11.2	98	22.3	74	16.7	30x72	13	2"	2"	1,513
TXF36-A-F	TXF36-M-F	71	16.1	141	32.1	106	24.1	36x72	19	3"	3"	2,140
TXF42-A-F	TXF42-M-F	96	21.9	192	43.7	144	32.8	42x72	26	3"	3"	3,435
TXF48-A-F	TXF48-M-F	126	28.6	251	57.1	189	42.9	48x72	34	3"	3"	4,438
TXF63-A-F	TXF63-M-F	217	49.2	433	98.4	325	73.8	63x86	58	4"	4"	8,244
<b>AG Filters: Non Hydrous Silicon Dioxide (Turbidity Removal)</b>												
AGF21-A-F	AGF21-M-F	12	2.7	24	5.5	24	5.5	21x65	6.5	1-1/2"	1-1/2"	466
AGF24-A-F	AGF24-M-F	16	3.6	31	7.1	31	7.1	24x72	8.5	1-1/2"	1-1/2"	666
AGF30-A-F	AGF30-M-F	25	5.6	49	11.2	49	11.2	30x72	13	2"	2"	1,106
AGF36-A-F	AGF36-M-F	35	8.0	71	16.1	71	16.1	36x72	19	3"	3"	1,546
AGF42-A-F	AGF42-M-F	48	10.9	96	21.9	96	21.9	42x72	26	3"	3"	2,623
AGF48-A-F	AGF48-M-F	63	14.3	126	28.6	126	28.6	48x72	34	3"	3"	3,375
AGF63-A-F	AGF63-M-F	108	24.6	217	49.2	217	49.2	63x86	58	4"	4"	6,431
<b>Activated Carbon Filters: Granular Form with High Degree of Porosity (Taste, Odor and Color Removal)</b>												
ACF21-A-F	ACF21-M-F	12	2.7	29	6.6	29	6.6	21x65	6.5	1-1/2"	1-1/2"	486
ACF24-A-F	ACF24-M-F	16	3.6	38	8.6	38	8.6	24x72	8.5	1-1/2"	1-1/2"	692
ACF30-A-F	ACF30-M-F	25	5.6	59	13.4	59	13.4	30x72	13	2"	2"	1,147
ACF36-A-F	ACF36-M-F	35	8.0	85	19.3	85	19.3	36x72	19	3"	3"	1,606
ACF42-A-F	ACF42-M-F	48	10.9	115	26.2	115	26.2	42x72	26	3"	3"	2,704
ACF48-A-F	ACF48-M-F	63	14.3	151	34.3	151	34.3	48x72	34	3"	3"	3,481
ACF63-A-F	ACF63-M-F	108	24.6	260	59.0	260	59.0	63x86	58	4"	4"	6,613

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Model #		Flow Rate						Tank Size D"xH"	Media Qty (ft <sup>3</sup> )	Pipe Size		Approx. Weight (lbs)
		Average		Peak		Backwash				Serv.	Drain	
		GPM	M <sup>3</sup> /H	GPM	M <sup>3</sup> /H	GPM	M <sup>3</sup> /H					
<b>Greensand PLUS Filters: Enriched Quality with High Catalytic Capacity (Fe, Mn and H<sub>2</sub>S Reduction)</b>												
GSF21-A-F	GSF21-M-F	12	2.7	29	6.6	29	6.6	21x65	6.5	1-1/2"	1-1/2"	1,709
GSF24-A-F	GSF24-M-F	16	3.6	38	8.6	38	8.6	24x72	8.5	1-1/2"	1-1/2"	2,291
GSF30-A-F	GSF30-M-F	25	5.6	59	13.4	59	13.4	30x72	13	2"	2"	3,593
GSF36-A-F	GSF36-M-F	35	8.0	85	19.3	85	19.3	36x72	19	3"	3"	5,180
GSF42-A-F	GSF42-M-F	48	10.9	115	26.2	115	26.2	42x72	26	3"	3"	7,595
GSF48-A-F	GSF48-M-F	63	14.3	151	34.3	151	34.3	48x72	34	3"	3"	9,878
GSF63-A-F	GSF63-M-F	108	24.6	260	59.0	260	59.0	63x86	58	4"	4"	17,524
<b>Birm Filters: Insoluble Catalyst (Fe and Mn Reduction)</b>												
BRF21-A-F	BRF21-M-F	12	2.7	29	6.6	29	6.6	21x65	6.5	1-1/2"	1-1/2"	620
BRF24-A-F	BRF24-M-F	16	3.6	38	8.6	38	8.6	24x72	8.5	1-1/2"	1-1/2"	868
BRF30-A-F	BRF30-M-F	25	5.6	59	13.4	59	13.4	30x72	13	2"	2"	1,415
BRF36-A-F	BRF36-M-F	35	8.0	85	19.3	85	19.3	36x72	19	3"	3"	1,998
BRF42-A-F	BRF42-M-F	48	10.9	115	26.2	115	26.2	42x72	26	3"	3"	3,240
BRF48-A-F	BRF48-M-F	63	14.3	151	34.3	151	34.3	48x72	34	3"	3"	4,183
BRF63-A-F	BRF63-M-F	108	24.6	260	59.0	260	59.0	63x86	58	4"	4"	7,809
<b>Calcite Filters: (pH Neutralization)</b>												
CTF21-A-F	CTF21-M-F	12	2.7	29	6.6	29	6.6	21x65	6.5	1-1/2"	1-1/2"	1075
CTF24-A-F	CTF24-M-F	16	3.6	38	8.6	38	8.6	24x72	8.5	1-1/2"	1-1/2"	1,463
CTF30-A-F	CTF30-M-F	25	5.6	59	13.4	59	13.4	30x72	13	2"	2"	2,325
CTF36-A-F	CTF36-M-F	35	8.0	85	19.3	85	19.3	36x72	19	3"	3"	3,328
CTF42-A-F	CTF42-M-F	48	10.9	115	26.2	115	26.2	42x72	26	3"	3"	5,060
CTF48-A-F	CTF48-M-F	63	14.3	151	34.3	151	34.3	48x72	34	3"	3"	6,563
CTF63-A-F	CTF63-M-F	108	24.6	260	59.0	260	59.0	63x86	58	4"	4"	11,869

\*All filters require periodic backwashing to dispose of the accumulated debris. This is accomplished by backwashing clean water through the unit and then disposing of the effluent. During this phase, the different sizes of media separate into layers, preparing the filter bed for service. Because backwashing generally occurs at higher flow rates than those seen in service, oftentimes a proper backwash flow rate is not possible because the systems are designed for required service flow rates. However, by utilizing smaller double or triple unit systems, the optimum backwash flow rate is lower; therefore, these systems operate at higher service flow rates.

### Notes

- 💧 Dimensions are estimate only. Actual dimensions may differ dependent on options selected.
- 💧 Shipping weights are estimate only. Weights include media and gravel that is shipped separately on pallets.

Pure Aqua also supplies: Custom Engineered Solutions, Multimedia Pretreatment, Activated Carbon Pretreatment, Water Conditioning, Chemical Dosing Systems, Ultraviolet (UV) Sterilizers and Ozonation Systems.

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